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(54) PRODUCTION OF MASTERBATCH FOR MODIFYING THERMOPLASTIC RESIN

(57) Abstract:

PURPOSE: To provide a method for enabling the stable production of a masterbatch containing a liquid modifying agent in a thermoplastic resin at a high concentration for a long period as pellets without causing the stickiness by bleeding of the liquid modifying agent.

CONSTITUTION: Kneading of 30-95 pts. wt. granular thermoplastic resin with 35-70vol.% porosity and 5-70 pts. wt. liquid modifying agent is carried out and the resultant kneaded material is then extruded at a temperature within a prescribed temperature range lower than the maximum peak temperature (T_m) of the thermoplastic resin measured by a differential scanning calorimetry(DSC). Other thermoplastic resins having the value of the T_m lower than that of the thermoplastic resin by $\geq 5^\circ\text{C}$ may be blended and extruded.

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